

## Abstract

To reduce the amount of memory used and process time in an expansion process, an editing process part (1) is used to select a mode of reproduction of page state. Before printing data of intermediate form is stored in an intermediate-form printing data memory (6), a register process part (4) included in an editing process part (1) analyzes the data and detects in what page state the data is reproduced on paper. The page state is converted into page state data and added to printing data of intermediate form. Therefore, an expansion process part (21) at the next stage performs the expansion process on the basis of page state data and therefore need not secure an assumed maximum amount of memory used for the expansion process.